



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

February 25, 1985

Mr. Ronald H. Baldwin  
Interstate Brick Company  
9780 South 5200 West  
West Jordan, Utah 84084

Dear Mr. Baldwin:

RE: Receipt of Annual Operations and Progress Reports

Please be informed that the Division of Oil, Gas and Mining has received your Annual Operations and Progress Reports (Form MR-3) for the following mines: Long Canyon Mine, ACT/049/007, Jim Gay Mine, ACT/049/005, Powell Mine, ACT/049/004, Black Mine, ACT/049/003, Smokey Joe Mine, ACT/049/002, Utah County, Utah; Fivemile Pass Mine, ACT/045/006, Tooele County, Utah; Henefer Mine, ACT/043/002, Summit County, Utah; Big Cottonwood Mine, ACT/035/003, Salt Lake County, Utah; Koosharem Mine, ACT/031/002, Piute County, Utah; Montello Mine, ACT/003/004, Box Elder County, Utah; White Mountain Mine, ACT/001/005, Beaver County, Utah.

Your cooperation in submitting this information in a timely manner is appreciated.

Best regards,

Ronald W. Daniels  
Acting Administrator  
Mineral Resource Development  
and Reclamation Program

PGL/btb  
0122R-17



*Rec'd 2/13/85*

ANNUAL OPERATIONS AND PROGRESS REPORT

From Month/Year January 1, 1984  
to Month/Year December 31, 1984

(To be submitted for each mining operation at the end of each calendar year to the Division at this address:)

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
(801) 538-5340

OPERATOR: Interstate Brick Co. MINE NAME: Koosharem

ADDRESS: 9780 South 5200 West  
West Jordan, Utah 84084

PERMIT NUMBER AND DATE OF PERMIT: ACT/031/002 Not yet approved

REPRESENTATIVE: Ronald H. Baldwin

SECTION(S): 2 TOWNSHIP(S): 27 South RANGE(S): 2 West, SLBM

MINERAL(S) MINED: Clay

STATE AND/OR FEDERAL MINERAL LEASE NUMBERS: Interstate subleases State Mineral Lease Numbers 27110 and 27206 from lease holder.

SPECIAL USE PERMITS AND/OR RIGHTS-OF-WAY: U. S. Forest Service road use permit for road 40069 (Box Creek Road).

Section 40-8-15 and Rule M-8 of the Utah Mined Land Reclamation Act, requires each operator to include with this report an up-dated map and plan prepared in accordance with Rule M-3, as outlined in the requirements for annual report maps in Appendix I, providing a detailed status of all mining and reclamation activities which have occurred during the past year.

The report should include:

MINING:

(a) Tabulation of acreage disturbed (by pits, roads, facilities, etc.) during the report period with illustration on a current map.



<u>Disturbance</u>	<u>Acreage</u>
Pit	-0-
Roads	-0-
Facilities	-0-
Waste Dumps	-0-
Other	-0-

(b) Tabulation of acreage affected to date (by years).

<u>Date by Year</u>	<u>Acreage (Total)</u>
1975	-0-
1976	-0-
1977	-0-
1978	-0-
1979	-0-
1980	7
1981	7
1982	7
1983	7

(c) Tabulation of all topsoil (new) stockpile volumes (see chart below) and date of stockpiling.

#### SOIL TABULATION CHART

Area Affected (in mining sequence) (If more space is needed, please attach.)	Area			
	1	2	3	etc.
	None			
Acreage of Area	No mining done in 1984.			
Depth of Topsoil Removal (inches)				
Depth of Topsoil Replacement (inches)*				
Estimate of Topsoil Volume Salvaged (yd <sup>3</sup> or ac ft)				
Volume Actually Salvaged (yd <sup>3</sup> or ac ft)				
Volume Required for Reclamation (yd <sup>3</sup> or ac ft)				
Surplus or Deficit Volume (yd <sup>3</sup> or ac ft)				
Storage Status (short- or long-term)				



Soil Tabulation Chart (continued)

Area Affected (in mining sequence)	Area			
	1	2	3	etc.
	None			
Storage Location	4			
Area Where Soil Has Been Used (if not stored)	N/A			
Running Total (all stockpiles) (yd <sup>3</sup> or ac ft)	600 y <sup>3</sup>			
Short-term	600 y <sup>3</sup>			
Long-term	None			

\*Of previously stripped area recently reclaimed.

(d) Tabulation of all (newly removed) out-of-pit spoil volumes, date of placement and illustration on a map.

<u>Area</u>	<u>Date</u>	<u>Acreage</u>
None		

(e) Tabulation of quantity of commodity mined.

	<u>Commodity</u>	<u>Tonnage</u>
(Mined)	None	
(Milled)		

(f) Description of any new construction during the report period with illustration on a map, including, but not limited to:

- Buildings and support facilities.

None

- Roads.

None



3. Diversion ditches, collector ditches, interceptor ditches, etc.

None

4. Culverts.

None

5. Sediment ponds, containment ponds.

None

6. Monitoring sites (vegetative, air quality, surface subsidence, surface water or ground water, etc.).

None

7. Topsoil stockpiles.

None

(g) Description of any environmental problem areas with a proposed plan for mitigation and illustration on a map, including, but not limited to:

1. Pit stability problems.

None

2. Subsidence.

None



3. Accidental water discharge, dam failure, etc.

None

4. Slumping, sliding or erosion.

None

5. Revegetation problem areas.

None

6. Existence and location of unsuitable (toxic) overburden.

None

RECLAMATION:

(a) Tabulation of the acreage reclaimed during the report period with illustration on a map, distinguishing between:

1. Backfilled, graded and contoured areas.

Area

Acreage

None

2. Topsoiled areas.

Area

Acreage

None



3. Seeded areas.

<u>Area</u>	<u>Acreage</u>
None	

4. Reseeded areas (areas previously seeded, then seeded again).

<u>Area</u>	<u>Acreage</u>
None	

(b) Tabulation of total acreage reclaimed (seeded with permanent seed mix) to date by years with illustration on an updated map:

<u>Year</u>	<u>Acreage</u>	
1975	?	} Reclamation done and accepted by DOGM on Previous Koosharem Pit
1976	?	
1977	?	
1978	-0-	
1979	-0-	
1980	1	
1981	1	
1982	1	
1983	1	
1984		

(c) Description of the reclamation procedures used during the report period, including:

1. Average depth of topsoil applied.

N/A

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2. Type of seed (species) used for seeding during the report period.

N/A

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3. Date of seeding during the report period.

Spring N/A

Fall

4. Seeding procedures used.

(Hand broadcast or drilled or any other).

N/A

5. Rate of seed application.

Pounds Per Acre of Pure Live Seed (PLS) (if varied, please explain)

N/A

6. Type and rate of fertilizer applied.

N/A

7. Type and rate of mulch applied.

N/A

8. Rate of irrigation water applied, if any. Please describe any type of sprinkling, or water applied (water truck, etc.).

N/A

9. Revegetation test plot information.

(Cover, density, productivity, etc.)

N/A



10. Soil analysis results.

See Attached soil analyses.

(d) Description of results of previous revegetation efforts, including:  
(This should be done as applicable.)

1. Types (species) of seed that have germinated and are growing.

Crested Wheatgrass, Intermediate Wheatgrass, Bluebunch  
Wheatgrass, Smooth Brome

2. Types (species) of seed that are not growing successfully.

Yellow sweet clover?, Alfalfa?

On field check I did not look for either clover or  
alfalfa but they may well have been present.

3. Areas experiencing problems with weeds and weed types.

Area number 4 has some occurrences of Big Sage and  
Foxtail Barley.

4. Significant erosional problems.

None

5. Areas of unsuitable overburden on the surface as related to  
revegetation failure.

None

6. Procedures used or proposed to correct these problems.

None



7. Acreage and dates of release (upon inspection by the State) of revegetated areas.

<u>Area</u>	<u>Date</u>	<u>Acreage</u>
None on pending permit		

8. Results of soil analysis.  
See attached soil analyses.

(e) Summarization of the reclamation costs incurred during the report period, including itemized costs for each operation (i.e., grading, topsoil replacement, seeding, etc.) and for each type of disturbance (i.e., spoil, haul roads, facilities removal, etc.) on a per acre basis.

	<u>Acres</u>	<u>Cost/Acre</u>
1. Grading	No mining or reclamation activities took place during the report period.	
2. Backfilling		
3. Contouring		
4. Topsoil Replacement		
5. Seeding		
A. Seedbed Preparation		
B. Mulch		
C. Fertilizer		
D. Seed		
6. Other		

BOND INFORMATION:

- A. An updated bond estimate should be included, if required in the Division's approval of the Mining and Reclamation Plan (MRP) or if changes to the MRP have occurred, including a detailed itemization of actual/estimated reclamation costs as outlined in the RECLAMATION section above. The date of the release of revegetated areas from further responsibility for a partial bond release, if applicable, should also be included.

	<u>Amount</u>	<u>Type</u>	<u>Date Posted</u>
Present Bond	<u>23,022</u>	<u>Surety</u>	<u>August 4, 1980</u>



Increased disturbance, if any:

None

Increased Bond Amount (attached reclamation estimate). None

B. Bond release.

Acres

Bond Amount Released

Date

None

ADDITIONAL INFORMATION:

Supply any additional information as requested by the Division related to:

- (a) Permit stipulations (status).  
(b) Other special conditions (status).

In 1984 various deficiencies to approval of the Koosharem Clay mine permit were addressed in a letter mailed to the Division in October.



Brigham Young University  
Department of Agronomy & Horticulture  
Soil Analysis Data

Submitted By :Ron Baldwin - Interstate Brick  
Address :9780 S. 5200 W.  
CSZ :West Jordan,Utah 84084

Date :09-17-1984  
Sample Description :vine soil

Customer Sample ID	PH	Sand	Clay	Silt	ZOM
1 Koosharea topsoil	7.20	37.28	17.28	45.44	12.08
2 overburden	7.60	61.28	21.28	17.44	1.25



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Department of Agronomy & Horticulture  
Soil Analysis Data

Submitted By :Ron Baldwin - Interstate Brick  
Address :9780 S. 5200 W.  
CSZ :West Jordan,Utah 84084

Date :09-17-1984  
Sample Description :mine soil

Customer Sample ID	PPH NO3-N	PPH P	Ec x 10 <sup>3</sup>	ZN	%Moisture
1 Koosharea topsoil	20.43	17.40	0.76	0.45	62.14
2 overburden	5.72	3.52	0.38	0.04	26.25



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Department of Agronomy & Horticulture  
Soil Analysis Data

Submitted By :Ron Baldwin - Interstate Brick  
Address :9780 S. 5200 W.  
CSZ :West Jordan,Utah 84084

Date :09-17-1984  
Sample Description :mine soil

Customer Sample ID	ZCaCO3	PPM K	PPM Ca	PPM Mg	PPM Na
1 Koosharem topsoil	14.04	39.04	137.44	256.00	1.92
2 overburden	11.78	6.88	122.72	3.20	13.12